BRUHAT BANGALORE MAHANAGARA PALIKE

BILL OF QUANTITIES(BOQ)

NAME OF WORK:-IMPROVEMENTS TO WATER TANKER SUPPLY IN WARD No.05

Sl.no	Approved Quantity	Description of Work	Unit	Issued to Technical Manager, KRIDL	
				In Figures	In Words
1	1	Supply of Drinking Water through water tankers of Capacity 5000 Liters Hiring of Water Tanker complete as per specifications and directions of Engineer in charge of work.	per day	410.00	Rupees Four Hundred and Ten Only
	1	1023 - Hire Charges of Tractor 40 HP including Operator and Fuel complete as per specifications and directions of Engineer in charge of work.	per day	1288.00	Rupees One Thousand Two Hundred and Eighty Eight Only
	5	Procurement of Water Rs 216.00/ Load (5000 Liters) Considering 5000 Liters cost is Rs. 108.00/Load Considering 5 Loads/Day 5X 108.00=540.00 complete as per specifications and directions of Engineer in charge of work.	per Load	108.00	Rupees One Hundred and Eight Only
	1	Engaging Heavy Mazdoor complete as per specifications and directions of Engineer in charge of work.		446.20	Rupees Four Hundred and Fourty Six and Twenty Paise Only
2	6.00	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Wate in the vicinity, its quality & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc complete as per specifications and directions of Engineer in charge of work.	Each BW	1938.46	Rupees One Thousand Nine Hundred Thirty Eight and Forty Six Paise Only

EXECUTIVE ENGINEER-4
KRIDL BBMP DIVISION
BENGALURU-560 010

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

Sl.no	Approved Quantity	Description of Work	Unit	Issued to Technical Manager, KRIDL	
				In Figures	In Words
3	300.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 0-50mtrs.	Rmtr	315.18	Rupees Three Hundred Fifteen and Eighteen Paise Only
4	300.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 50-100mtrs.	Rmtr	412.00	Rupees Four Hundred Twelve Only
5	300.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 100-150mtrs.	Rmtr	458.35	Rupees Four Hundred Fifty Eight and Thirty Five Paise Only
6	300.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 150-200mtrs.	Rmtr	484.10	Rupees Four Hundred Eighty Four and Ten Paise Only

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Sl.no	Approved Quantity	Description of Work	Unit	Issued to Technical Manager, KRIDL	
				In Figures	In Words
7	300.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 200-250mtrs.	Rmtr	560.32	Rupees Five Hundred Sixty and Thirty Two Paise Only
8	300.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 250-300mtrs.	Rmtr	600.49	Rupees Six Hundred and Forty Nine Paise Only
9	540.87	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 300-370mtrs.	Rmtr	622.00	Rupees Six Hundred Twenty Two Only
10	413.94	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work.	Rmtr	1364.75	Rupees One Thousand Three Hundred Sixty Four and Seventy Five Paise Only
11	60.00	Providing and fixing 250mm dia PVC Pipe and complete as per specification and directions of Engineer incharge of work.	Rmtr	1133.00	Rupees One Thousand One Hundred Thirty

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Sl.no	Approved Quantity	Description of Work	Unit	Issued to Technical Manager, KRIDL	
				In Figures	In Words
12	6.00	175mm dia M.S. Casing cap complete as per specification and directions of Engineer incharge of work.	Each	103.00	Rupees One Hundred Three Only
13	60.00	M.S. Casing pipe collars 'C' Class complete as per specification and directions of Engineer incharge of work.	Each	154.50	Rupees One Hundred Fifty Four and Fifty
14	132000.00	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work.	Sqm	0.34	Thirty Four Paise Only
15	300.00	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation complete as per specification and directions of Engineer incharge of work.	per length	90.64	Rupees Ninety and Sixty Four Paise Only
16	6.00	Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc,. Complete for basement out door type.(MR) complete as per specification and directions of Engineer incharge of work.	Nos	475.00	Rupees Four Hundred Seventy Five Only
17	18.00	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc.,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work.	Nos	150.00	Rupees One Hundred Fifty Only
18	210.00	Supplying and laying of LT UG cable having aluminum conductor PVC insulated sheathed, galvanized, steel wire/steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable complete as per specification and directions of Engineer incharge of work.	Mtr	169.95	Rupees One Hundred Sixty Nine and Ninety Five Paise Only
19	210.00	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete sutting road surfaces complete as per specification and directions of Engineer incharge of work.	Mtr	56.65	Rupees Fifty Six and Sixty Five Paise Only
20	18.00	Supplying and fixing of class A GI pipe on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm complete as per specification and directions of Engineer incharge of work.	Mtr	294.58	Rupees Two Hundred Ninety Four and Fifty Eight Paise Only

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				In Figures	In Words
21	6.00	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit … The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia, complete as per specification and directions of Engineer incharge of work.	Nos	1699.50	Rupees One Thousand Six Hundred Ninety Nine and Fifty Paise Only
22	6.00	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class 16sqmmUG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.complete as per specification and directions of Engineer incharge of work.	Nos	271.92	Rupees Two Hundred Seventy One and Ninety Two Paise Only
23	6.00	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,Size 20 x 20 x 2.5 inches with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work.	Nos	311.58	Rupees Three Hundred Eleven and Fifty Eight Paise Only
24	6.00	Borewell Cap and Clamp Set complete as per specification and directions of Engineer incharge of work.	Set	1800.00	Rupees One Thousand Eight Hundred Only
25	3.00	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 17.50 HP 30 stage complete as per specification and directions of Engineer incharge of work.	Nos	72126.00	Rupees Seventy Two Thousand One Hundred Twenty Six Only

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Sl.no	Approved Quantity	Description of Work	Unit	Issued to Technical Manager, KRIDL	
				In Figures	In Words
26	3.00	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 20 HP 40 stage complete as per specification and directions of Engineer incharge of work.	Nos	90595.00	Rupees Ninety Thousand Five Hundred Ninety Five Only
27	2010.00	Providing, laying & joining GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings) 50mm dia GI pipe B Class complete as per specification and directions of Engineer incharge of work.	Rmtr	415.00	Rupees Four Hundred Fifteen Only
28	336.00	Supply and fixing Collar for GI Pipes 50MM complete as per specification and directions of Engineer incharge of work.	Nos	180.00	Rupees One Hundred Eighty Only
29	3468.00	Supplying of submersible pump cable 1X3X6 Sqmm complete as per specification and directions of Engineer incharge of work.	Mtr	144.00	Rupees One Hundred Forty Four Only
30	6.00	Supplying & delivery at site brand new / Essen / lotus sunsines/Adarsh/Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph,50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz,380/440 AC supply shall be consisted etc., completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above Up to 20HP with star delta starter (MR) complete as per specification and directions of Engineer incharge of work.	Nos	21000.00	Rupees Twenty One Thousand Only
31	6.00	Supplying & delivery of brand 50mm Gate Valve complete as per specification and directions of Engineer incharge of work.	Nos	1800.00	Rupees One Thousand Eight Hundred Only
32	6.00	Supplying & delivery of brand 50mm Non Return Valve complete as per specification and directions of Engineer incharge of work.	Nos	1800.00	Rupees One Thousand Eight Hundred Only

EXECUTIVE ENGINEER-4
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Sl.no	Approved Quantity	Description of Work	Unit	Issued to Technical Manager, KRIDL	
				In Figures	In Words
33	6.00	Supplying and fixing MCB complete as per specification and directions of Engineer incharge of work.	Nos	900.00	Rupees Nine Hundred Only
34	507.60	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications and directions of Engineer incharge of work.	Cum	316.94	Rupees Three Hundred Sixteen and Ninety Four Paise Only
35	1870.00	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including joining of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete as per specifications and directions of Engineer incharge of work.	Mtr	394.32	Rupees Three Hundred Ninety Four and Thirty Two Paise Only
36	507.60	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications and directions of Engineer incharge of work.	Cum	128.26	Rupees One Hundred Twenty Eight and Twenty Six Paise Only

1. The work should be executed as per the specification and standard specified by the PWD & Other specifications of the Bangalore Mahanagara Palike and as directed.
2. The work should be carried out as per the directions and instructions of the concerned Engineer.
3. The Contractor should maintain the quality of work as per the standard specifications.

Executive Engineer(Byatarayanapura)
Yelahanka Project Division
Bruhath Bangalore Mahanagara Palike

I am prepared to take up the above work at the rates quoted by me in the Schedule 'B'.

EXECUTIVE ENGINEER-4
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BENGALURU-560 010